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1 2	UNITED STATES PATENT AND TRADEMARK OFFICE
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4	BEFORE THE BOARD OF PATENT APPEALS
5	AND INTERFERENCES
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7 8	Ex parte EDWARD D. BRILL and RICK L. HABBEN
9	Ex parte EDWARD D. BRIEL and RICK L. HABBEN
10	
11	Appeal 2008-4093
12	Application 09/855,989
13	Technology Center 3700
14 15	
16	Decided: October 31, 2008
17	Beefded. Getober 31, 2000
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19	Before WILLIAM F. PATE, III, JENNIFER D. BAHR and DANIEL S.
20	SONG, Administrative Patent Judges.
21 22	SONG, Administrative Patent Judge.
	5010, Administrative I dieni Juage.
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24	DECISION ON APPEAL
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26	STATEMENT OF THE CASE
27	The Appellants appeal under 35 U.S.C. § 134 (2002) from rejection of
28	claims 1-14 and 17-21. Claims 15, 16 and 22 stand withdrawn from
29	consideration. We have jurisdiction under 35 U.S.C. § 6(b) (2002).
30	The Appellants claim a vibrator motor that can be used in a hair
31	clipper.
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Representative independent claim 1 reads as follows: 1 2 1. A vibrator motor comprising: 3 a stationary piece having a plurality of laminations; and 4 a moving piece having a plurality of laminations, the 5 moving piece being hingedly secured to the stationary piece by 6 interlocking the moving piece laminations with the stationary 7 piece laminations so that the moving piece laminations and 8 stationary piece laminations form a hinge which secures the 9 moving piece laminations to the stationary piece laminations. 10 11 Independent claim 17 is directed to a hair clipper having a motor with 12 the components recited in independent claim 1. 13 The prior art relied upon by the Examiner in rejecting the claims is: 14 Davis 3,357,101 Dec. 12, 1967 15 Pfenning 3,735,297 May 22, 1973 Jun. 30, 1998 16 Huppert 5,771,538 17 Wahl 5,787,587 Aug. 4, 1998 18 Soultanian 6.163.092 Dec. 19, 2000 19 Kienzler WO 00/27599 May 18, 2000 20 21 The Examiner rejected claims 1-4, 7-9 and 11-13 under 35 U.S.C. 22. § 103(a) as unpatentable over Soultanian and Pfenning. 23 The Examiner rejected claims 5 and 6 under 35 U.S.C. § 103(a) as 24 unpatentable over Soultanian, Pfenning and Kienzler. 25 The Examiner rejected claim 10 under 35 U.S.C. § 103(a) as 26 unpatentable over Soultanian, Pfenning and Davis. The Examiner rejected claim 14 under 35 U.S.C. § 103(a) as 27 28 unpatentable over Soultanian, Pfenning and Huppert.

1 The Examiner rejected claims 17, 18 and 21 under 35 U.S.C. § 103(a) 2 as unpatentable over Soultanian, Wahl and Pfenning. 3 The Examiner rejected claims 19 and 20 under 35 U.S.C. § 103(a) as unpatentable over Soultanian, Wahl, Pfenning and Kienzler. 4 5 We AFFIRM 6 7 ISSUE 8 The dispositive issue in the present appeal is whether the Appellants 9 have shown that the Examiner erred in relying on Pfenning, and thus, erred 10 in rejecting the appealed claims based on Pfenning in combination with 11 other prior art references of record. 12 13 FINDINGS OF FACT 14 The record supports the following findings of fact (FF) by a 15 preponderance of the evidence. 16 1 Soultanian describes a vibrator motor including a stationary piece (stator 10) having a plurality of laminations (38) and a moving piece 17 18 (armature 12) having a plurality of laminations (40), where the moving piece 19 is hingedly secured to the stationary piece (col. 3, ll. 40-44; figs. 1-5). 20 2. The motor of Soultanian does not describe interlocking the 21 moving piece laminations and the stationary piece laminations so that the 22 laminations form a hinge that secures the moving piece laminations to the 23 stationary piece laminations. Instead, the motor of Soultanian utilizes a 24 housing member (30), a pivot (20) and a spacing member (48) to hinge the

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1 stationary piece and the moving piece together (col. 3, Il. 44-50 and 56-61; 2 figs. 1-3). 3 3. Pfenning describes a relay where moving piece laminations 4 (movable armature 16) are hingedly secured to the stationary piece 5 laminations (magnet frame 10) via extension (17) and bore (18) to thereby 6 form a hinge (col. 2, 1, 50-col. 3, 1, 1; col. 3, 11, 11-15; fig. 1). 7 8 PRINCIPLES OF LAW 9 "Section 103 forbids issuance of a patent when 'the differences 10 between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the 11 12 invention was made to a person having ordinary skill in the art to which said 13 subject matter pertains." KSR Int'l Co. v. Teleflex Inc., 127 S.Ct. 1727, 1734 (2007). The question of obviousness is resolved on the basis of 14 15 underlying factual determinations including (1) the scope and content of the 16 prior art, (2) any differences between the claimed subject matter and the prior art, (3) the level of skill in the art, and (4) where in evidence, so-called 17 18 secondary considerations. Graham v. John Deere Co., 383 U.S. 1, 17-18 19 (1966).20 In KSR, the Supreme Court emphasized "the need for caution in

granting a patent based on the combination of elements found in the prior

of familiar elements according to known methods is likely to be obvious

when it does no more than yield predictable results." KSR, 127 S.Ct. at

art," and reaffirmed principles based on its precedent that "[t]he combination

1 1739. The Court also explained that "when a patent claims a structure 2 already known in the prior art that is altered by the mere substitution of one 3 element for another known in the field, the combination must do more than 4 vield a predictable result." Id. at 1739-40. 5 The Court further stated that: 6 When a work is available in one field of endeavor. 7 design incentives and other market forces can 8 prompt variations of it, either in the same field or a 9 different one. If a person of ordinary skill can 10 implement a predictable variation, \$103 likely bars 11 its patentability. For the same reason, if a 12 technique has been used to improve one device, 13 and a person of ordinary skill in the art would 14 recognize that it would improve similar devices in 15 the same way, using the technique is obvious 16 unless its actual application is beyond his or her 17 skill. 18 Id. at 1740. 19 The Court noted that "[t]o facilitate review, this analysis should be 20 made explicit." Id. at 1741 (citing In re Kahn, 441 F.3d 977, 988 (Fed. Cir. 21 2006) ("[R]ejections on obviousness grounds cannot be sustained by mere conclusory statements; instead, there must be some articulated reasoning 22 23 with some rational underpinning to support the legal conclusion of 24 obviousness")). However, "the analysis need not seek out precise teachings 25 directed to the specific subject matter of the challenged claim, for a court 26 can take account of the inferences and creative steps that a person of 27 ordinary skill in the art would employ." KSR, 127 S.Ct. at 1741.

2 ANALYSIS 3 Initially, the Appellants state that the ground of rejection to be 4 reviewed on appeal is whether independent claim 1 would have been 5 obvious over Soultanian and Pfenning, and more particularly, whether 6 Pfenning is an analogous prior art reference (App. Br. 11). The Appellants 7 further state that dependent claims 2-14, independent claim 17 and 8 dependent claims 18-21 stand or fall together (App. Br. 11). The Appellants 9 do not make any separate arguments in favor of independent claim 17, or 10 dependent claims 2-14 and 18-21, apart from claim 1. 11 The Examiner rejected claim 1 stating that Soultanian describes all of 12 the limitations recited in claim 1 except for the limitation "the moving piece" 13 laminations and the stationary piece laminations form a hinge which secures 14 the moving piece laminations to the stationary piece laminations" (Ans. 3) 15 and 4). The Examiner relies on Pfenning to cure this deficiency stating that 16 it would have been obvious to provide the motor of Soultanian with the 17 hinge of Pfenning (Ans. 4). 18 The Appellants first contend that the Examiner erred in finding that 19 Soultanian describes the recited interlocking of the moving piece 20 laminations and the stationary piece laminations (App. Br. 12; Reply Br. 2). 21 Secondly, the Appellants contend that Pfenning is not an analogous 22 reference because it describes a relay instead of a vibrator motor claim 1 23 (App. Br. 14). Moreover, the Appellants also contend that there is no 24 motivation or suggestion to combine Soultanian and Pfenning (App. Br. 16).

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3 piece lamination" is unpersuasive. During prosecution, claims are to be 4 given their broadest reasonable construction in light of the specification as it 5 would be interpreted by one of ordinary skill in the art. In re Am. Acad. of Sci. Tech. Ctr., 367 F.3d 1359, 1364 (Fed. Cir. 2004). Moreover, "[a]bsent 6 7 claim language carrying a narrow meaning, the PTO should only limit the claim based on the specification or prosecution history when those sources 8 9 expressly disclaim the broader definition." In re Bigio, 381 F.3d 1320, 1325 10 (Fed Cir. 2004). 11 The term "interlock" is defined, inter alia, as "to connect so that the 12 motion or operation of any part is constrained by another." Marriam-Webster's Collegiate Dictionary, 11th Ed. (2007). There does not appear to 13 be a specific definition of "interlock" or "interlocking", or a disclaimer 14 15 within the Specification of such a broad definition. Thus, when the broad 16 construction of "interlocking" is applied, we find that connection of the 17 moving piece laminations with the stationary piece laminations using 18 additional components (such as a housing member (30), a pivot (20) and a 19 spacing member (48) (FF 2)) as described in Soultanian satisfies the recited 20 interlocking limitation of independent claim 1. 21 Moreover, even accepting, arguendo, that Soultanian does not

Firstly, the Appellants' argument that Soultanian does not describe the

limitation "interlocking the moving piece laminations with the stationary

describe the recited interlocking of the moving piece and the stationary

clearly describes this limitation as well (FF 3), and we find that the

piece, the outcome of the present appeal is not impacted because Pfenning

Examiner properly relied upon Pfenning in rejecting claim 1 as discussed 1 2 infra. 3 The Appellants' contentions that Pfenning is not an analogous 4 reference and that the Examiner erred in relying on Pfenning are based on 5 the fact that Pfenning describes a relay instead of a motor (App. Br. 14 and 15). In this regard, the Appellants point out that vibrator motors and relays 6 7 are classified in different classes by the USPTO (App. Br. 14). The 8 Appellants also argue that a relay is unlike a motor because a relay does not 9 drive a workload or operate continuously like a motor, but instead, merely 10 makes and breaks electrical contact in response to command signals (App. 11 Br. 14; Reply Br. 2). In this regard, the Appellants contend that Pfenning 12 does not address the problem addressed by the claimed invention (App. Br. 13 15), and that even if Pfenning is an analogous reference, there is no 14 motivation or suggestion to combine Soultanian and Pfenning (App. Br. 16). 15 Even accepting, arguendo, that Pfenning is not within the same field 16 of endeavor because of differences between motors and relays, such a 17 finding does not preclude the Examiner from properly relying on Pfenning in 18 rejecting the Appellants' claims. In particular, the Supreme Court has held 19 that "[w]hen a work is available in one field of endeavor, design incentives 20 and other market forces can prompt variations of it, either in the same field 21 or a different one." KSR, 127 S.Ct. at 1740 (emphasis added). Moreover, 22 the Federal Circuit has held that "[a] reference is reasonably pertinent if, 23 even though it may be in a different field from that of the inventor's 24 endeavor, it is one which, because of the matter with which it deals,

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3 1374, 1379-80 (Fed. Cir. 2007). 4 In the present case, the difference between the Appellants' invention 5 of claim 1 and Soultanian is that the motor described in Soultanian has a 6 hinge formed by a housing member (30), a pivot (20) and a spacing member 7 (48) (FF 1 and 2), instead of a hinge formed by the moving piece 8 laminations and the stationary piece laminations. However, the Examiner 9 finds this distinction to be obvious to one of ordinary skill because 10 "Soultanian and Pfenning incorporate very similar structure[s]" and "it is old 11 and well known for an apparatus including moving piece lamination being 12 pivotally hinged to stationary piece laminations to incorporate a hinge that is 13 formed by the moving and stationary pieces and not by an additional 14 structure" (Ans. 10). 15 We agree with the Examiner's findings and conclude that the 16 Appellants' invention of claim 1 merely applies the known technique of 17 incorporating hinge features into the laminate components (as shown in 18 Pfenning) to laminate components for a vibrator motor that is structurally 19 similar to a relay. See KSR, 127 S.Ct. at 1740 (stating "if a technique has 20 been used to improve one device, and a person of ordinary skill in the art 21 would recognize that it would improve similar devices in the same way, 22 using the technique is obvious unless its actual application is beyond his or 23 her skill"). In the above regard, we also find that Pfenning is reasonably 24

logically would have commended itself to an inventor's attention in

considering his problem." In re Icon Health and Fitness, Inc., 496 F.3d

pertinent because Pfenning commends itself to the attention of a person of

1 ordinary skill in the art who is considering how to hingedly secure moving 2 piece laminations to stationary piece laminations. See In re Icon Health and 3 Fitness, 496 F.3d at 1379-80. Therefore, in view of the above, we conclude 4 that the Appellants have not shown that the Examiner erred in relying on 5 Pfenning. 6 With regard to the Appellants' argument that there is no motivation or 7 suggestion to combine Soultanian and Pfenning (App. Br. 16), we note that 8 the Examiner "need not seek out precise teachings directed to the specific 9 subject matter of the challenged claim." KSR, 127 S.Ct. at 1741. What is 10 required is for the Examiner to provide "some articulated reasoning with 11 some rational underpinning to support the legal conclusion of obviousness." 12 Id. In the present appeal, the Examiner articulated a reason for applying the 13 teachings of Pfenning to the hinge of Soultanian, namely, "to allow the 14 apparatus to incorporate less parts by substituting a hinge formed by the 15 moving and stationary laminations instead of a third party hinge apparatus" 16 (Ans. 4). We find the Examiner's articulated reason to be rational and 17 sufficient for concluding that claim 1 would have been obvious to one of 18 ordinary skill in the art. See also Leapfrog Enterprises, Inc. v. Fisher Price, 19 Inc., 485 F.3d 1157, 1162 (Fed. Cir. 2007) ("[O]ne of ordinary skill in the 20 art . . . would have found it obvious to combine the Bevan device with the 21 SSR to update it using modern electronic components in order to gain the 22 commonly understood benefits of such adaptation, such as decreased size, 23 increased reliability, simplified operation, and reduced cost.")

1 Therefore, in view of the above, we find that the Appellants have not 2 shown that the Examiner erred in relying on Pfenning, or that the Examiner 3 erred in rejecting claim 1 as unpatentable over Soultanian and Pfenning. As the Appellants have not presented any separate arguments as to the 4 5 remaining claims on appeal, the Appellants likewise have not shown that the 6 Examiner erred in rejecting claims 2-14 and 17-21. 7 8 CONCLUSION 9 On the record before us, Appellants have not shown that the Examiner erred in relying on Pfenning, or that the Examiner erred in rejecting the 10 11 appealed claims. 12 13 ORDER 14 The Examiner's rejections of claims 1-14 and 17-21 are AFFIRMED. 15 No time period for taking any subsequent action in connection with 16 this appeal may be extended under 37 C.F.R. § 1.136(a). See 37 C.F.R. § 17 1.136(a)(1)(iv) (2007). 18 19 AFFIRMED 20 ack 21 cc: 22 GREER, BURNS & CRAIN 23 300 S WACKER DR 24 25TH FLOOR 25 CHICAGO, IL 60606